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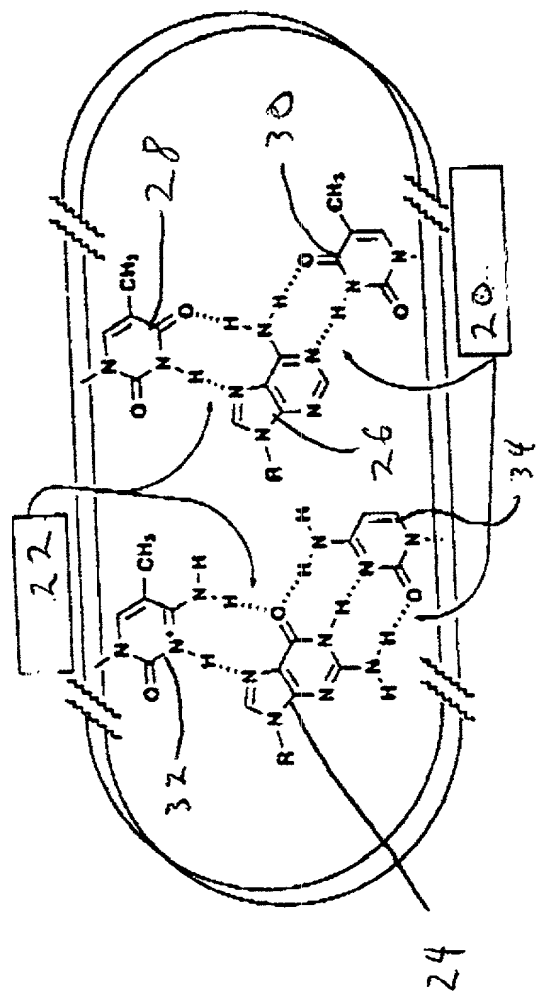


Fig. 1

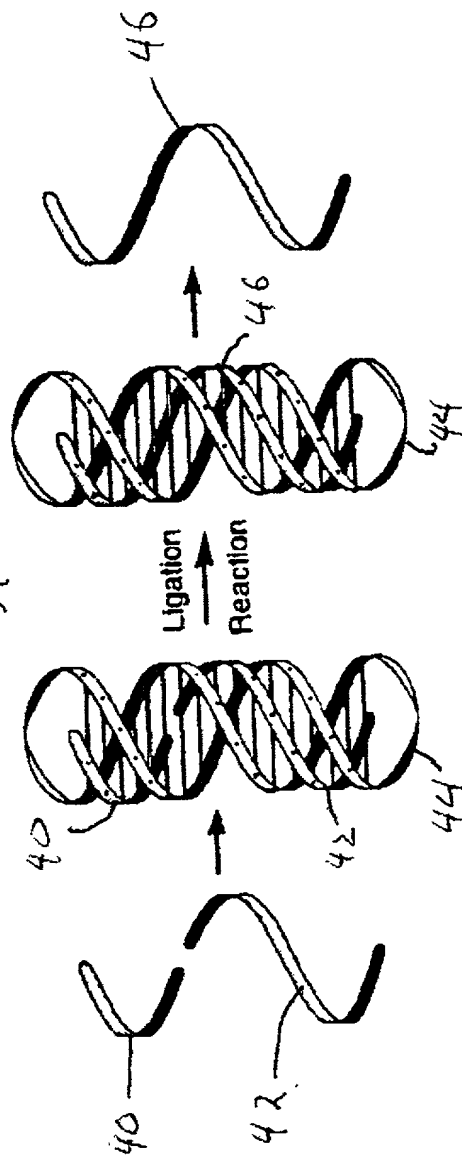
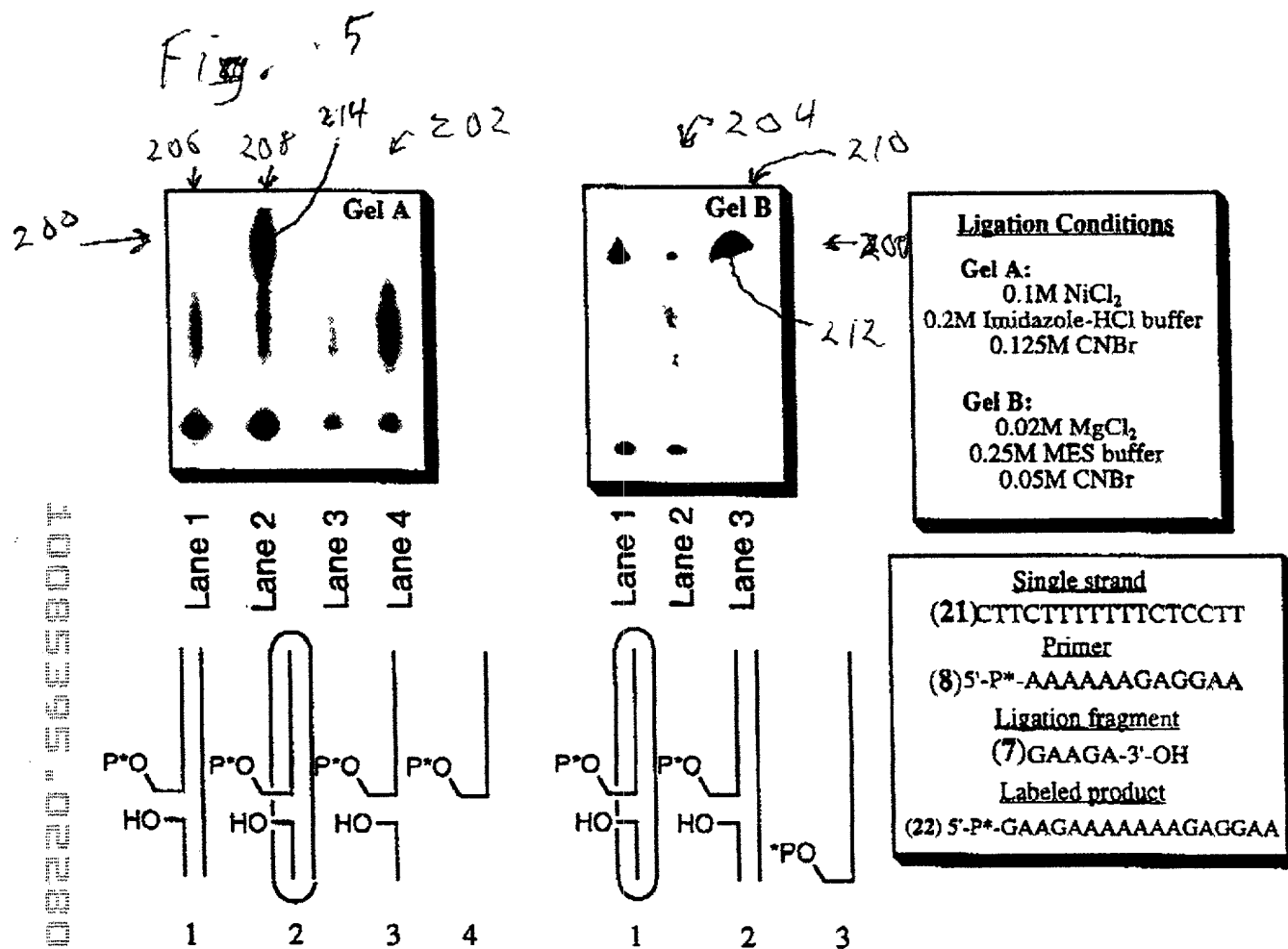


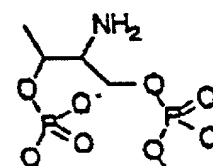
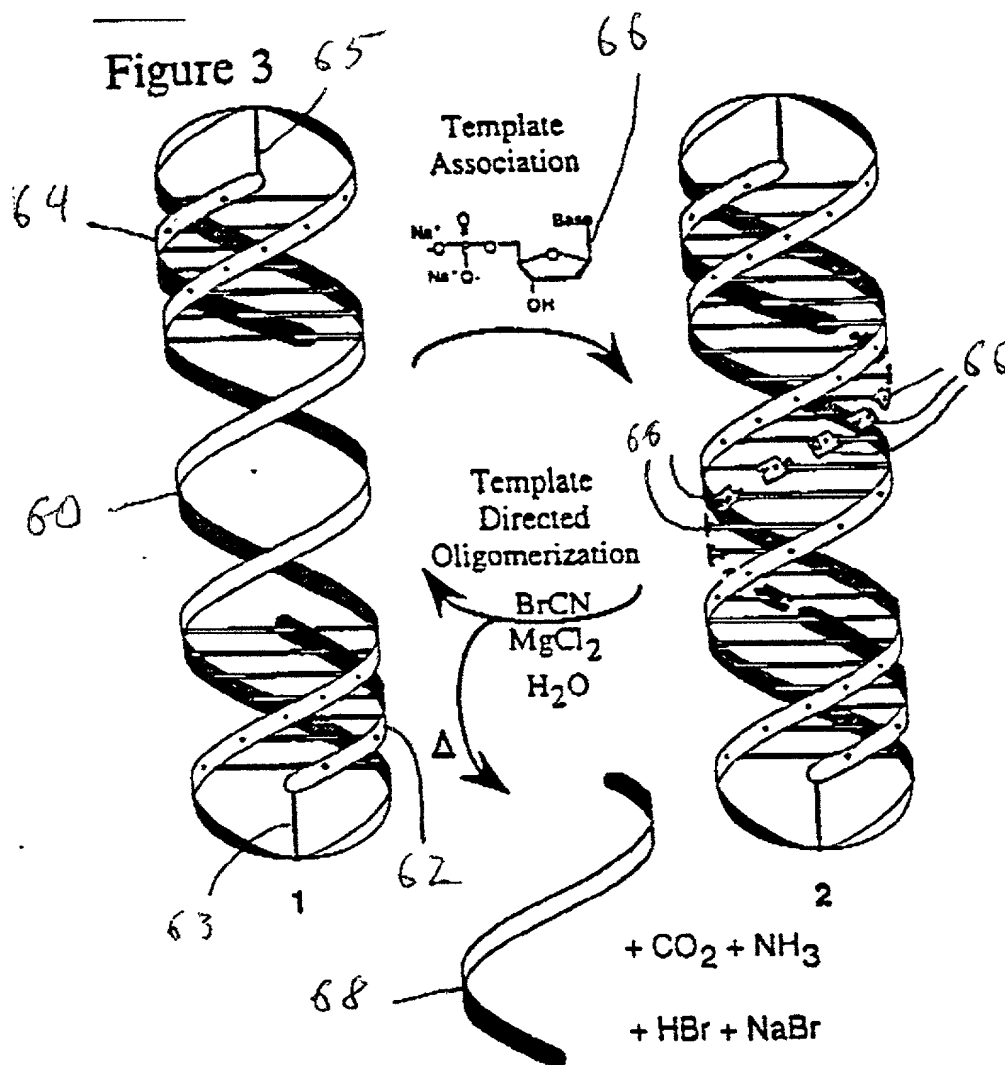
Fig. 2

Figure 1. Top: triplex resulting from homopurine ligation fragments bound to pyrimidine bases of the circular DNA template (R represents backbone of the circular DNA template on the Hooxsteen side of



Autoradiography of PAGE analysis of the ligation of 5-mer 7 with 5'-32 P labeled 12-mer 8. Gel A shows the results of the reaction run with NiCl_2 in imidazole-HCl buffer, while Gel B shows the result of the reaction run with MgCl_2 in MES buffer. Lanes 2 (Gel A) and 1 (Gel B) show the migration of the reaction mixture from ligation on circular DNA template 1. Lanes 1 (Gel A) and 2 (Gel B) compare the results of the ligation reaction on the corresponding single-strand DNA template X. Lane 3 (Gel A) shows the results of the ligation reaction with no template present. Lane 3 (Gel B) shows the migration of the expected full length ligated product which was independently synthesized and 5'-32 P labeled.

Fig. 5



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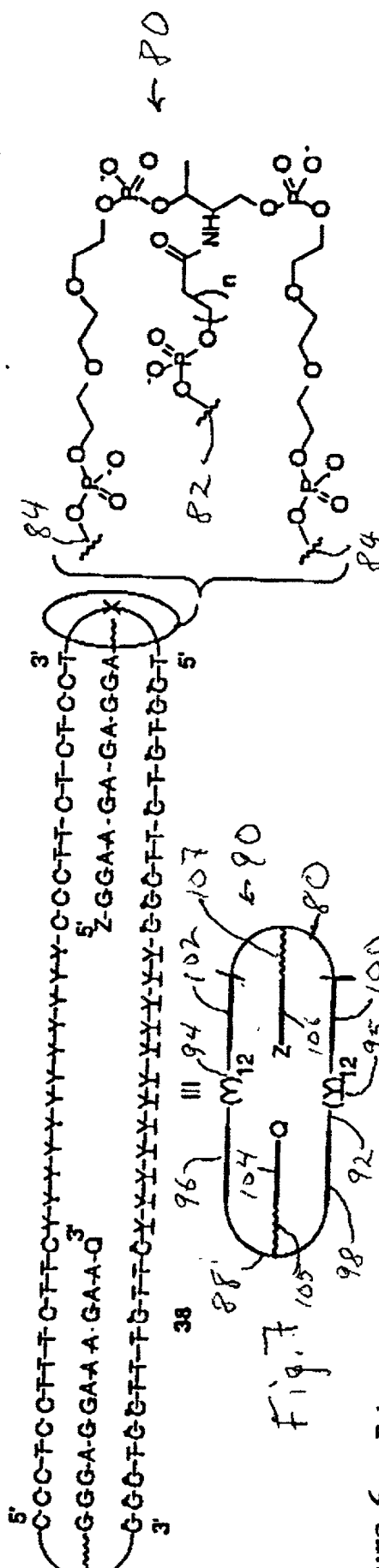
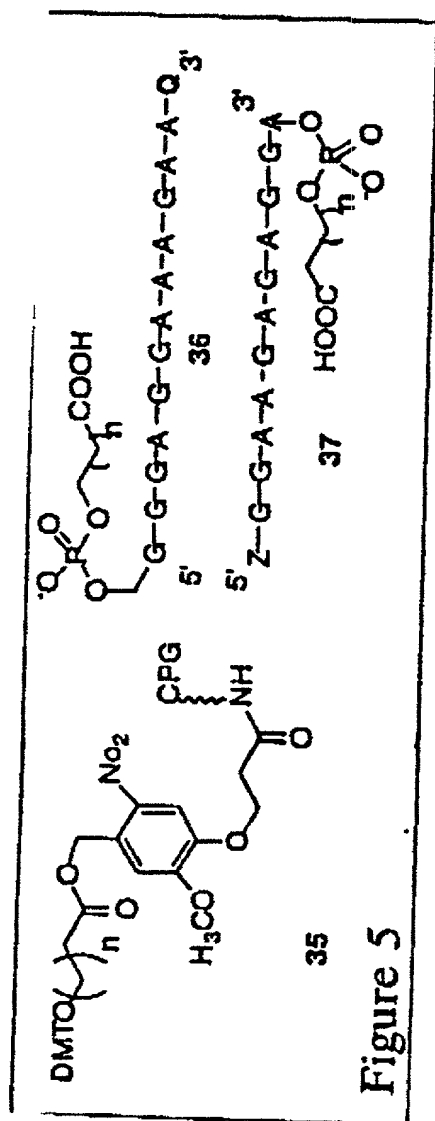
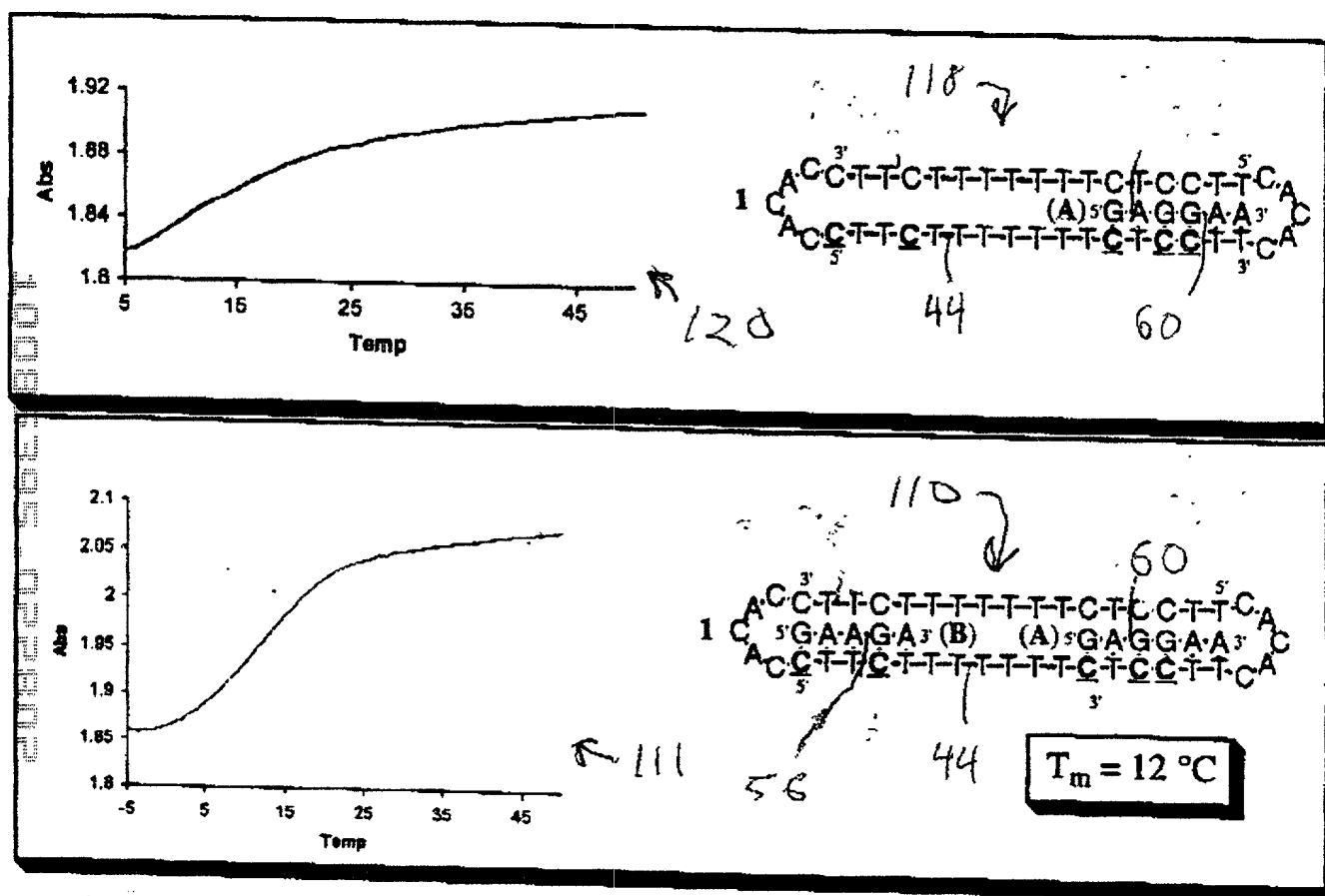


Figure 6 . Primer attached circular DNA template. See Scheme 11 for Q and Z designation.

Fig. 8



Melting analysis of circular template 1 with primer A () and primers A and B

Fig. 9